

Lucy E Delaney

graduate student in biological sciences

contact

ldelan5@uic.edu

website

ledelaney.org

github

[ledelaney](https://github.com/ledelaney)

programming

R (proficient)
php, bash, zsh (novice)

document markup

LaTeX, HTML & CSS,
R Markdown

software

Adobe Illustrator,
Microsoft Office Suite

licenses

Illinois Substitute
Teaching, FCC
Technician Class Radio

Interests

Conceptual understanding of evolutionary principles, evolution-centered teaching, R for undergraduate education, macroevolution, the evolution of plant breeding systems, data manipulation & visualization with `tidyverse`

Education

PhD candidate in Ecology & Evolutionary Biology

University of Illinois at Chicago

Dissertation: *The Nature of Adaptation and the Epistemology of Natural Selection*

MA in Molecular & Cellular Biology, 2016

Hunter College (CUNY)

BS in Forensic Molecular Biology, Philosophy, 2012

John Jay College (CUNY)

University Teaching

BIOS 220 Mendelian and Molecular Genetics

Fall 2019 - Summer 2020

Sophomore-level course focusing on Mendelian inheritance patterns and molecular mechanisms of inheritance. Helped managed transition from in-person to online delivery. Responsible for teaching discussion section, creating digital course materials & exams, grading, and Blackboard administration.

BIOS 331 General Ecology Laboratory

Summer 2019

Application of ecological and evolutionary concepts with hands-on experiments and field trips to local natural areas. Responsible for weekly laboratory instruction, office hours, and grading.

BIOS 230 Ecology and Evolution

Spring 2019

Sophomore-level course with emphasis on basic ecological systems, ecosystem dynamics, and evolutionary principles. Responsible for weekly office hours, assignment creation, and grading.

BIOS 430 Evolution

Fall 2017 - Fall 2018

Upper-division, programming-focused course on evolutionary theory and principles. Responsible for weekly office hours & debugging, quiz materials, and grading of R programming assignments.

BIOS 120 Biology of Populations and Communities

2016-2017

Introductory biology laboratory course with emphasis on ecological and evolutionary principles. Responsible for weekly laboratory instruction, office hours, and grading.

Community Teaching

UIC Biological Sciences Department Course Builder & Trainer

2020-Present

Trained in online instructional design & pedagogy, and software relevant to online teaching & learning. Assisting Biological Sciences Department faculty members in transitioning their courses online, and managing technical aspects of courses throughout online delivery.

Nurturing Wisdom Tutoring Tutor

2018-2020

Highly-rated individual tutoring for grades 7-12 in test preparation (SAT and high school entrance exams), science, mathematics, and writing.

Chicago-area Charter Schools Substitute Teacher

2015-2016

Substitute teacher for elementary, middle, and high school classes.

Teaching Honors & Awards

2020	Nominated for the UIC Graduate Student Excellence in Teaching and Mentoring Award
2020	Recipient of the Biological Sciences Department Graduate Teaching Award for BIOS 220
2018	Recipient of the Biological Sciences Department Graduate Teaching Award for BIOS 430

Other Awards & Training

2020	Participant in the 2020 Chicago R Collaborative Conference
2018	Recipient of the Biological Sciences Department Travel Award
2018	Reviewer for International Journal of Botany, Oxford Bibliographies
2017	Accepted to NSF-funded workshop on Bayesian analysis of macroevolutionary mixtures
2017	Recipient of the Biological Sciences Department Travel Award
2017	Accepted to microMORPH Plant Anatomy Summer Course at Harvard University
2016	General horticulture volunteer at Garfield Park Conservatory

Presentations

Society for the Advancement of Biology Education Research West Online Talk	2021
Delaney, Lucy E, The Four Causes of Adaptation .	
Undergraduate Biology Education Research GRS at Bates College in Lewiston, ME Poster	2021
Delaney, Lucy E, The Four Causes of Adaptation . <i>Forthcoming</i> .	
Midwest Ecology and Evolution Conference Online Talk	2021
Delaney, Lucy E, The Four Causes of Adaptation . <i>Forthcoming</i> .	
Annual Meeting of the Botanical Society of America at Rochester, MN Poster	2018
Delaney, Lucy E, Ramanauskas, K., & Igić, B., Breeding Systems in the Legumes .	
microMORPH Summer Course at Arnold Arboretum, Harvard Talk	2017
Delaney, Lucy E, Evolutionary Consequences of Plant Mating Systems .	

Publications

- Delaney, Lucy E**, Ramanauskas, K., & Igić, B. (2021a). Breeding systems in the legumes: What do we know? *Manuscript in Prep*.
- Delaney, Lucy E**, Ramanauskas, K., & Igić, B. (2021b). Breeding systems in the orchids. *Manuscript in Prep*.
- Delaney, Lucy E**. (2012). Nietzsche, nerve stimulation-image connection, and ontology. *John Jay's Finest*, 27, 99–103.

Professional Experience

Forensic Molecular Biologist at NYC Office of Chief Medical Examiner

2012-2015

Examined evidence for the presence of biological fluids, performed serological & DNA analysis techniques, analyzed data & performed statistical analyses, wrote reports, and provided expert scientific testimony in court.

Health Research Intern at NYC Department of Health

2011-2012

Accepted to the Health Research Training Program for a year-long internship with the Bureau of Environmental Disease Prevention. Received training in disease epidemiology, emergency preparedness & response, public health and outreach programs in environmental disease control & prevention, and emerging viral infections.

Field Manager & Administrative Assistant at Working Families Party

2008-2011

Responsible for payroll, managing employees' healthcare coverage, bank deposits, and data entry. Organized informational events for the public, and served as Field Manager for multiple election and fundraising campaigns.